Sarah L. Krein, Ph.D., R.N.
Research Associate Professor in Internal Medicine
University of Michigan Medical School
Center for Clinical Management Research
Ann Arbor VA HSR&D Center of Excellence
2215 Fuller Road, Mailstop 11H
Ann Arbor, MI 48105-2399
(734) 845-3621
skrein@umich.edu

### **CURRICULUM VITAE**

### **Education and Training**

08/1985-04/1989 BSN (Bachelor of Science in Nursing, Suma Cum Laude),

University of Mary, Bismarck, ND

09/1991-06/1997 Ph.D. (Health Services Research, Policy and Administration),

University of Minnesota, Minneapolis, MN. Dissertation: <u>Rural hospitals and rural health clinics: The influence of market and institutional forces</u>. June 1997. Advisor: Jon C. Christianson, PhD

### **Certification and Licensure**

Nursing Licensure

Registered Nurse, State of Michigan (#4704214499) *Expires 03/31/2012* 

### Other Certification

BLS Certificate, Red Cross Expires 11/18/2010

### Academic, Administrative, and Clinical Appointments

07/1989-06/1991 Critical Care/Transplant Staff Nurse, St. Mary's Hospital,

Rochester, MN

09/1991-05/1992 Graduate Assistant, Division of Health Services Administration,

University of Minnesota, Minneapolis, MN

06/1992-09/1992 Research Assistant, "The Use of Psychotropic Drugs in Nursing

Homes," University of Minnesota, Institute for Health Service

Research, Minneapolis, MN

09/1992-09/1993	Research Assistant, "Diabetes PORT," University of Minnesota, Institute for Health Services Research, Minneapolis, MN
09/1993-06/1997	Research Assistant, University of Minnesota Rural Health Research Center, Institute for Health Services Research, Minneapolis, MN
08/1997-present	Research Health Science Specialist, Research Investigator, VA Ann Arbor Health Services Research and Development Center of Excellence, VA Ann Arbor Healthcare System, Ann Arbor, MI
11/1998-06/2001	Adjunct Research Associate, Division of General Medicine, Department of Internal Medicine, University of Michigan, Ann Arbor, MI
06/2001-09/2006	Research Investigator, Division of General Medicine, Department of Internal Medicine, University of Michigan, Ann Arbor, MI
09/2006-08/2009	Research Assistant Professor, Division of General Medicine, Department of Internal Medicine, University of Michigan, Ann Arbor, MI
06/2007-08/2010	Adjunct Research Assistant Professor, School of Nursing, University of Michigan, Ann Arbor, MI
09/2009-present	Research Associate Professor, Division of General Medicine, Department of Internal Medicine, University of Michigan, Ann Arbor, MI
09/2010-present	Adjunct Research Associate Professor, School of Nursing, University of Michigan, Ann Arbor, MI

### **Research Interests**

- 1. Chronic Illness Care and Complex Chronic Disease
- 2. Chronic Pain
- 3. Organizational Behavior
- 4. Patient Safety with a specific focus on infection prevention
- 5. Health Economics

### Grants

Present and Active

1 R 18DK076622 (EA Kerr)

08/01/07-07/31/11

NIH/NIDDK Total award \$2,179,092

Improving Adherence and Intensification of Medications Among Diabetes Patients

Role: Co-Investigator/Health Economist

1R01NR010700 (S Krein/S Saint) 07/01/08-04/30/12 NIH/NINR Total award: \$1,714,114

Implementing Evidence to Prevent Urinary Infection and Enhance Patient Safety

Role: Principal Investigator

CSP 465-FS (R Hayward/S Krein) 06/01/08-05/31/13

VA Cooperative Studies Program Total (Ann Arbor) award: \$1,876,733

VA Diabetes Trial Follow-up Study

Role: Project Co-Principal Investigator/Health Economist

DIB 98-001 (EA Kerr) 07/01/98-09/30/12 VA HSR&D Total award \$1,750,000

Quality Enhancement Research Initiative – Diabetes Mellitus (QUERI DM)

Role: Co-Investigator

IIR 07-177 (S Krein/C Richardson) 10/01/08-03/31/12 VA HSR&D Merit Award Total award: \$898,300

Veterans Walk to Beat Back Pain Role: Principal Investigator

1R01AG032298 01A1 (L Mody) 09/15/2009-08/31/2014 NIH/NIA Total award \$1,781,088

Targeted Infection control Program (TIP) in Nursing Homes

Role: Co-Investigator

IBB 09-034 (J Lowery/L Damschroder) 10/01/2009-09/30/2012 VA HSR&D Merit Award Total award \$1,400,000

ASPIRE: Coaching Veterans to Healthy Weights and Wellness

Role: Co-Investigator/Health Economist

VHA Systems Improvement Capability Grant (Young) 01/01/2010-9/30/2012 Redesigning the System of Care for Hospitalized Patients Total award \$1,340,252

Role: Co-Investigator

IAC 09-047 (Ilgin) 04/01/10-03/31/2013 VA HSR&D Merit Award Total award: \$759,800 Managing Chronic Pain in Veterans with Substance Use Disorders

Role: Co-Investigator

Department of Veterans Affairs (Blaum/Greenstone) 04/01/10-09/33/14

VA Total award: \$6,991,012

Sarah L. Krein, Ph.D., RN 4/8/2011 3

VAAAHS Patient-centered Medical Home Demonstration Laboratory

Role: Co-Investigator

1-R01-HS-018334-01-A1 (McMahon) 9/1/2010-8/31/2013 AHRQ 9/1/2010-8/31/2013 Direct Costs: \$246,173

Impact of CMS Hospital-Acquired Conditions on Vulnerable Patients and Hospitals

Role: Co-Investigator/Health Economist

European Commission/University of Geneva (Saint) 8/11/2010-6/30/2013 European Commission/University of Geneva Direct Costs: \$32,229

Prevention of Hospital Infections by Intervention & Training (PROHIBIT)

Role: Co-Investigator

IIR 09-366 (Richardson) 08/01/2010-7/31/2013 VA HSR&D Merit Award Direct Costs: \$892,976 Effectiveness of an Automated Walking Program Targeting Veterans with COPD

Role: Co-Investigator

VHA Office of Rural Health (Krein) 10/01/2010 - 09/30/ VHA Midwest Rural Health Resource Center Direct Costs: \$147,639

Infection Prevention Practice Use and the Role of Nurse-Physician Relationships in Preventing

Healthcare-Associated Infection at Rural VA Hospitals

Role: PI

### Pending Research Support

### Previous Grants (partial list)

VA Health Services Research and Development Merit Award (IIR 97-077)

Proactive Diabetes Case Management

Principal Investigator: S. Krein (co-Principal Investigator: R. Hayward)

9/01/1998 – 8/31/2002 Role: Principal Investigator

VA Health Services Research and Development (TRH 01-031)

A Customfit Approach to Guideline Implementation

Principal Investigator: J. Lowery (Co-Principal Investigator: S. Krein)

7/01/2001 - 3/31/2003

Role: Co-Principal Investigator

VA Health Services Research and Development (SDR 01-019)

Translating Research Into Practice for Diabetes in the VA

Principal Investigator: R. Hayward & E. Kerr

3/01/2001 – 2/28/2004 Role: Co- Investigator NIH/NIDDK R18 DK62323-01

Evaluating Nurse-Managed Collaborative Diabetes Care

Principal Investigator: B. Anderson

8/01/2002 - 7/31/2006

Role: Co-Investigator/Health Economist

VA Health Services Research and Development (DIT 02-064)

An Evaluation of a Coordinated Proactive Eye Care Program

Principal Investigator: R. Hayward & S. Bernstein

1/01/2004 - 12/31/2005

Role: Co-Investigator/Health Economist

VA Health Services Research and Development Merit Program (IIR 02-225).

Addressing Barriers to Translation for Treatment of Hypertension.

Principal Investigator: E. Kerr (Co-Principal Investigator: T. Hofer)

3/1/2004-2/28/2008. Total award \$1,256,563

Role: Co-Investigator

VA Rehab Research and Development Merit Program (E03-3362R)

Aerobic Performance, Mobility Limitations and Exercise in Older Adults With Diabetes

Principal Investigator: C. Blaum

5/01/2005 - 4/30/2008. Total award \$714,451

Role: Co-investigator/Health Economist

VA Cooperative Studies Program (CSP 465)

Glycemic Control and Complications in Diabetes Mellitus Type 2

Principal Investigator: R. Hayward (PI economic analysis subcontract)

7/01/00 – 6/30/2008 Role: Health Economist

VA Health Services Research and Development (RRP 07-354)

Study of Women Veterans In Menopause (SWIM)

Principal Investigator: S. Krein

10/01/2007 - 7/31/2008. Total award \$9,000

Role: Principal Investigator

VA Health Services Research and Development Merit Program (SAF 04-031)

Translating Infection Prevention Evidence to Enhance Patient Safety

Principal Investigator: S. Krein (Co-Principal Investigator: S. Saint)

10/01/2004 – 9/30/2008 (funding ended 3/31/08). Total award \$799,655

Role: Principal Investigator

VA Health Services Research and Development (SHP 08-138)

Assessing Nurse/Physician Communication in the ICU

Principal Investigator: S. Krein

4/1/2008 - 9/30/2008. Total award \$33,700

Role: Principal Investigator

VA Health Services Research and Development (SHP 08-176)

Summary Measures of Health Care Quality: A Critique of Four Approaches

Principal Investigator: J. Timbie (Co-Principal Investigator S. Vijan)

4/01/08 - 9/30/08. Total award \$15,800

Role: Co-Investigator

VA Health Services Research and Development Merit Program (IIR 03-254) Diabetes Telemedicine Consultation: A Systems Improvement Intervention

Principal Investigator: D. Aron

04/01/05-03/31/09. Total award \$738,000 Role: Co-investigator/Health Economist

VA Health Services Research and Development Merit Program (CHI 03-007)

Evaluation of a Cardiac Nurse Practitioner Palliative Care Program

Principal Investigator P. Vaitkevicius 9/01/05-02/28/09. Total award: \$845,990 Role: Co-Investigator/Health Economist

VA Health Services Research and Development (SDP 06-003)

Inpatient Smoking Cessation: Bringing the Program to the Smoker

Principal Investigator: S. Duffy

10/01/06-09/30/09. Total award \$655,100 Role: Co-investigator/Health Economist

NIH/NIDDK (5P60DK20572)

Michigan Diabetes Research Training Center

Principal Investigator: W. Herman

12/01/02-11/30/13 (my effort ended 12/09). Total award \$8,900,000

Role: Co-Investigator/Health Economist

SDP 06-128 (M Heisler) 07/01/07-06/30/10 VA HSR&D Total award \$829,100

Adherence and Intensification of Medications (AIM) Implementation Study

Role: Co-Investigator/Health Economist

### **Honors and Awards**

1985-1989 Presidential Laureate Scholarship Recipient 1989 Sigma Theta Tau (nursing honor society)

1998 Special Contribution Award, Department of Veterans Affairs

### **Memberships in Professional Societies**

1997-Present AcademyHealth

2001-Present International Health Economics Association (iHEA)

2005-Present Association for Professionals in Infection Control and Epidemiology, Inc.

(APIC)

2009-2010 Society of Hospital Medicine

### **Editorial Positions, Boards, and Peer Review Service**

Study Sections	
2004	Ad-hoc member of the Centers for Disease Control and Prevention Public
	Health Research Peer Review Panel
2004, 2005	Ad-hoc member of the VA HSR&D Scientific Merit Review Board
2005	Ad-hoc member of the Centers for Disease Control and Prevention Special
	Emphasis Panel (SEP) for Program Announcement Ci-5-006
2006	Ad-hoc member of the VA HSR&D General Health Services Scientific
	Merit Review Board
2007	Ad-hoc member of the VA HSR&D Health Services Methodology
	Scientific Merit Review Board
2009	Ad-hoc member of the Centers for Disease Control and Prevention Special
	Emphasis Panel (SEP) for Health Promotion and Disease Prevention
	Research Centers, DP09-001
2009	Stage 1 reviewer for National Institutes of Health Challenge Grants in
	Health and Science Research (RFA-09-003)
2010, 2011	Ad-hoc member of VA HSR&D QUERI Service Directed Proposals and
	Rapid Response Proposals Review Committees

### Reviewer

2010

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	1996-present	Journal of Rural Health
	1999	Journal of the American Medical Association (JAMA)
	2000	Health Services Research (HSR)
	2002	Canadian Medical Association Journal
	2003	Journal of the National Medical Association, Health Care Financing
		Review
	2003-present	Diabetes Care
	2003-present	Medical Care (named as exceptional reviewer in 2009-2010)
	2003-present	American Journal of Managed Care
	2004	Archives of Internal Medicine
	2006-present	Journal of General Internal Medicine
	2006-present	Implementation Science
	2007-present	Infection Control and Hospital Epidemiology
	2008-present	American Journal of Infection Control
	2008-present	The Journal of Pain
	2009	Journal of the American Geriatrics Society

Social Science and Medicine

#### 2011 Annals of Internal medicine

<b>Teaching</b> 09/1993-12/1993 Teaching Assistant, University of Minnesota, Institute for Health		
09/1993-12/1993	Teaching Assistant, University of Minnesota, Institute for Health Services Research	
1997-present	Presenter and Seminar Participant, University of Michigan General Medicine Weekly Research Conference (present 1 conference per year)	
1997-present	Presenter and Seminar Participant, Ann Arbor VA Center of Excellence Research Conference (present 1 conference every 1-2 years)	
2006	Seminar: "Frameworks for Understanding and Implementing Quality Improvement Interventions: An Organizational Perspective." University of Michigan Robert Wood Johnson Foundation Clinical Scholars Program. March 2006 and December 2006	
2007	Seminar: "Understanding and Implementing Quality Improvement Interventions in Healthcare Organizations." University of Michigan Robert Wood Johnson Foundation Clinical Scholars Program. November 2007	
2008	Seminar: "Understanding and Implementing Quality Improvement Interventions in Healthcare Organizations." University of Michigan Robert Wood Johnson Foundation Clinical Scholars Program. November 2008	
2009 and 2011	Seminar co-facilitator: "Translating Evidence Into Practice – The Science of Implementation." University of Michigan Robert Wood Johnson Foundation Clinical Scholars Program. December 2009; January 2011.	
2011	Seminar: "Qualitative Methods in Health Services Research" HMP 809, University of Michigan School of Public Health. March 25, 2011.	
<u>Dissertation Committees</u>		

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2007-2008 Mentor and Dissertation committee member: Pat Rouen, PhD candidate, University of Michigan School of Nursing. Successfully defended December 2008.

2010-2011	Content mentor and dissertation committee member: Brian Conner, MSN, RN PhD Candidate, Medical University of South Carolina
Research Mentoring	
2001-2002	Mentor: Michele Heisler, MD, MPA, University of Michigan Robert Wood Johnson Clinical Scholar and Lecturer, University of Michigan Department of Medicine on use of multi-level modeling techniques
2005-2006	Co-Mentor: Jennifer Hefner, pre-doctoral student, University of Michigan School of Public Health
2005-2009	Mentor: John Hollingsworth, MD, Department of Urology, University of Michigan Medical School and Robert Wood Johnson Clinical Scholar on quantitative methods
2006-2007	Mentor: Crista Johnson, MD, University of Michigan Robert Wood Johnson Clinical Scholar and Lecturer, Obstetrics & Gynecology, University of Michigan Medical School on quantitative methods
2009- present	Research Mentor: Melissa Miller, MD, Pulmonary and Critical Care Medicine Fellow, University of Michigan Health System. Scientific Advisory Committee member for Clinical Research Masters Program.
2009-present	Research Mentor: Sameer Saini, MD, Gastroenterologist at Ann Arbor VA Medical Center and Research Investigator VA Ann Arbor HSR&D Center of Excellence. VA HSR&D Career Development Award 2.
2010-present	Research Mentor: Juliette Slomka, MD, General Internist at Ann Arbor VA Medical Center. Preparing application for VA HSR&D Career Development Award 1.
2010-present	Primary Mentor: Bree Holtz, PhD, post-doctoral fellow VA Ann Arbor HSR&D.

## Committee, Organizational, and Volunteer Service

### **Institutional**

1998 – present Co-director Diabetes QUERI Research Coordinating Center 2000 – 2004 VA-University of Michigan-Trinity Health Evidence-Based Practice

	2007 – present 2010 2010-present 2010-present	Conference Planning Committee VA Ann Arbor Research and Development Committee member UMHS Destination Program Coordinated Care Evaluation Committee VA Ann Arbor Hospital Outcomes Program of Excellence (HOPE) initiative leadership team VA Ann Arbor Patient-Aligned Care Teams (PACT) demonstration lab steering committee	
Region	Regional		
	2000 – 2009	National Kidney Foundation of Michigan Community Health Initiatives Advisory Committee	
	2001 – present	VA VISN 11 Care Management Committee	
	2002 – 2004	Michigan Department of Community Health, Diabetes Prevention and Control Program, Strategic Planning Task Force/Steering Committee	
	2004 - 2007	Michigan Department of Community Health, Diabetes Partners in Action Coalition Board of Directors	
	2011	VA VISN 11 No Preventable Harms Campaign Committee	
Nationa	<u>al</u>		
	1998 – present	Quality Enhancement Research Initiative – Diabetes Mellitus (diabetes QUERI) Executive Committee, Veterans Health Administration	
	2002	VA Health Care Atlas Steering Committee	
	2006 – present	Quality Enhancement Research Initiative – Stroke Executive Committee Member, Veterans Health Administration	
	2006 – present 2008 – 2009	VA Health Economics Resource Center, Steering Committee member 2009 VA HSR&D National Meeting Planning Committee, Workshops co-chair	

# Visiting Professorships, Seminars, and Extramural Invited Presentations <a href="Extramural Invited Presentations">Extramural Invited Presentations</a>

"QUERI-DM: A Clinical/Research Partnership to Enhance Diabetes Care for Veterans." Invited presentation, VA Diabetes Educators Specialty Practice Group, Orlando, FL, August 16, 1999.

"QUERI: Translating Research into Practice." Invited presentation, VA Diabetes Educators Specialty Practice Group, San Diego, CA, August 8, 2000.

"Proactive Diabetes Case Management: Translating Research into Practice." Invited presentation, Evidence-Based Practice 2001 – Clinical Relevance and Practice Realities, Ann Arbor, MI, March 23, 2001.

"Diabetes Care Management: Example VA Ann Arbor Healthcare System." Invited presentation, VA Diabetes Educators Specialty Practice Group, Louisville, KY, August 13, 2001.

- "Use of Electronic Medical Record Data and Automated Clinical Databases For Systemwide Quality Improvement" Invited presentation as part of panel session on Informatics Strategies to Support Evidenced-based Practice at the Information Technology Conference/ Office of Information, Austin, TX, August 6, 2003.
- "Measuring Outcomes of a Case Management Program". Invited presentation, VISN 11 Primary Care Case Management Conference, Kalamazoo, MI, November 4, 2004.
- "Step by Step through the QUERI Process: Improving Diabetes Eye Care." Invited presentation as part of panel session on Lessons Learned from VA Implementation Research. AcademyHealth 2005 Annual Research Meeting, Boston, MA, June 27, 2005.
- "Moving Evidence from the Journals to the Patient's Bedside: Translating Infection Prevention Evidence to Enhance Patient Safety (TRIP)." Invited presentation at the Michigan Society for Infection control (MSIC) Spring Conference, Lansing, MI, April 20, 2006.
- "Translating Infection Prevention Research into Practice." Invited presentation, Plenary session, The University of Maryland School of Nursing and the VA Maryland Health Care System 6<sup>th</sup> Annual Evidence-based Practice Conference, Baltimore, MD, April 2, 2009.
- "Behavioral Health Research and the Returning Veteran Population: challenges and Opportunities." Invited presentation at the Academy of Behavioral Medicine Research 2009 Annual Conference, Keystone, CO, June 20, 2009.
- "Turning Evidence into Practice" Invited presentation, The Michigan Society for Infection Prevention and Control Fall 2009 Education Conference, Lansing, MI, October 15, 2009.
- "The Use of Mixed-Methods to Study Translating Infection Prevention Evidence into Practice." Invited presentation, National Nursing Practice Network, October 6, 2010.
- "Implementing Evidence to Prevent Catheter-Associated Urinary Tract Infection: A Statewide and a Unit-based Approach." Invited presentation with Jennifer Meddings, CDC State Collaborative Tele-conference, November 30, 2010.
- "Implementing Change: The Socio-Adaptive Aspects of Preventing CAUTI." Invited presentation, VA Inpatient Evaluation Center Catheter-Associated Urinary Tract Infection (CAUTI) National Call, January 13, 2011.
- "Integrating Qualitative and Mixed Methods into Your Infection Prevention Initiatives." Invited presentation, 21<sup>st</sup> Annual Scientific Meeting of the Society for healthcare Epidemiology of America (SHEA), Dallas, TX, April 2, 2011.

#### Other Presentations

"The Employment and Use of Nurse Practitioners and Physician Assistants By Rural Hospitals," Paper presented at the National Rural Health Association Conference, Minneapolis, MN, May 1996.

"Rural Hospitals and Rural Health Clinics," Poster presentation at the National Rural Health Association Conference, Seattle, WA, May 1997.

"VHA's Quality Enhancement Research Initiative for Diabetes Mellitus (QUERI-DM)," Poster presented at the 1<sup>st</sup> Annual National VA Diabetes Symposium, Washington, D.C., March 1999.

"Michigan Diabetes Outreach Networks (MDONs): Evaluating the Impact on Care Process and Patient Outcomes," Paper presented at the CDC Diabetes Translation Conference, Albuquerque, NM, April 1999.

"Michigan Diabetes Outreach Networks (MDONs): A Public Health Approach to Improve Diabetes Care and Outcomes," Poster presented at the Association for Health Services Research 16<sup>th</sup> annual meeting, Chicago, IL, June 27, 1999.

"Examining Variation at Provider, Team and Facility Level for Performance Indicators Related to Diabetes Care," Oral presentation at the HSR&D Service 18<sup>th</sup> Annual Meeting, Washington, D.C., March 23, 2000.

"Aspirin Use and Counseling About Aspirin Among Patients With Diabetes in VA" Krein SL, Kerr EA, Smith DM, Hogan MM, Hayward RA. Poster presented at the HSR&D Service 19<sup>th</sup> Annual Meeting, Washington, D.C., February, 15-16, 2001.

"Proactive Diabetes Case Management: Expectation Versus Reality" Krein SL, Klamerus ML, Vijan S, Pawlow A, Reeves P, Hayward, RA. Poster presented at the HSR&D Service 20<sup>th</sup> Annual Meeting, Washington, D.C., February, 14-15, 2002.

"Case Management: Is it Meeting Expectations?" Krein SL, Klamerus ML, Vijan S, Lee J, Fitzgerald T, Hayward, RA. Poster presented at the Academy for Health Services Research and Policy Annual Research Meeting, Washington, D.C., June, 25, 2002.

"Chronic Pain and Self-management Among Veterans with Diabetes." Krein SL, Heisler M, Piette JD, Makki F, Kerr EA. Poster presented at the VA HSR&D Service 22<sup>nd</sup> Annual Meeting, Washington, D.C., March 10, 2004.

"Does Self-Efficacy Mediate the Influence of Chronic Pain on Patients' Self-Care Adherence?" Krein SL, Heisler M, Piette JD, Butchart A, Kerr EA. Poster presented at the VA HSR&D Service National Meeting, Arlington, VA, February 16, 2006.

- "Adoption of Infection Prevention Practices by VA and non-VA Hospitals." Krein SL, Hofer T, Kowalski C, Saint S. Poster presented at the VA HSR&D Service National Meeting, Arlington, VA, February 16, 2006.
- "Adoption of Device-Related Infection Prevention Practices by U.S. Hospitals." Krein, SL, Hofer T, Kowalski C, Banaszak-Holl J, Saint S. Poster presented at the AcademyHealth 2006 Annual Research Meeting, Seattle, WA, June 26, 2006.
- "How QUERI Process Facilitates Collaboration: Focusing on Chronic Pain." Krein, S. and Ullrich, P. VA HSR&D QUERI Cyberseminar, May 3, 2007
- "What Practices Are U. S. Hospitals Using to Prevent Hospital-Acquired Urinary Tract Infection and Why? A Mixed-Methods Study." Saint S, Kowalski C, Krein S. Poster presented at the VA HSR&D Service National Meeting, Baltimore, MD, February 14, 2008.
- "Preventing Ventilator-Associated Pneumonia in U. S. Hospitals: A Mixed-Methods Study." Krein SL, Kowalski C, Kaufman S, Forman J, Damschroder L, Saint, S. Oral presentation at the 18<sup>th</sup> Annual Scientific Meeting of the Society for Healthcare Epidemiology of America (SHEA), Orlando, FL, April 7, 2008.
- "More Than a Pain in the Neck: How Discussing Chronic Pain Affects Medication Intensification for Hypertension." Krein SL, Hofer TP, Holleman R, Piette JD, Standiford CJ, Klamerus ML, Kerr EA. Poster presented at VA QUERI National Meeting, Phoenix, AZ, December 11, 2008.
- "The Role of Champions in Implementing Infection Prevention Practices." Damschroder LJ, Banaszak-Holl J, Kowalski C, Forman J, Saint S, Krein SL. Poster presentation at 2<sup>nd</sup> Annual NIH Conference on the Science of Dissemination and Implementation: Building Research Capacity to Bridge the Gap From Science to Service, Bethesda, MD, January 28, 2009.
- "Diffusion of Innovation: Translating Infection Prevention Research Into Practice." Sarah L. Krein and Sanjay Saint. Invited lecture, University of Michigan, Interdisciplinary Committee on Organizational Studies (ICOS), Ann Arbor, MI, March 27, 2009.
- "Exercise and Management of Chronic Back Pain." Invited presentation VHA Pain Management Teleconference, May 5, 2009.
- "All About Data." Invited presentation Michigan Hospital Association Keystone: HAI Teleconference, September 24, 2009.
- "Menopause Symptoms in Women with Diabetes: Glucose Control is an Important Correlate of Severity." Rouen P, Krein SL, Roberts J, Reame N. Poster presentation at

The North American Menopause Society National Meeting, San Diego, CA, September 30 – October 3, 2009.

"Mixed Methods Research: The TRIP Experience." Working seminar presentation, University of Michigan School of Nursing, Ann Arbor, MI, February 22, 2010.

"What U.S. Hospitals Are Doing to Prevent Hospital-Acquired Infection: 2005 to 2009." Krein SL, Kowalski C, Hofer TP, Saint S. Oral presentation Fifth Decennial International conference on Healthcare-Associated Infections 2010, Atlanta, GA, March 20, 2010.

"Implementing Evidence to Prevent Catheter-Associated Urinary Tract Infection and Enhance Patient Safety." Invited presentation Dean's Lecture Program, University of Michigan School of Nursing, Ann Arbor, MI, April 6, 2010.

"Preventing Catheter-Associated Urinary Tract Infection in U.S. Hospitals: 2005 to 2009." Krein SL, Kowalski C, Fakih M, Olmsted R, Saint S. Oral presentation Hospital Medicine 2010, Society of Hospital Medicine Annual Meeting, Washington, DC, April 10, 2010.

"Preventing Hospital-Acquired Infection in U.S. Hospitals: 2005 to 2009." Krein SL, Kowalski C, Hofer TP, Saint S. Oral presentation Society of General Internal Medicine (SGIM) 2010 Annual Meeting, Minneapolis, MN, April 29, 2010.

"Interactive discussion of Case Examples of Researcher-Operations Collaborations from the U.S. Department of veterans Affairs (VA) Quality enhancement Research Initiative (QUERI)." Krein SL (lead), Helfrich C, Sahay A, Daggett V, Sales A. Workshop, Knowledge Translation 2010, Improving Health Care & Health Systems with Knowledge Translation, Halifax, Nova Scotia, Canada, June 9, 2010.

"What VA and Non-VA Hospitals are Doing to Prevent Hospital-Acquired Infections: 2005 to 2009." Krein SL, Kowalski CP, Hofer TP, Saint S. Poster presentation VA Health Services Research and Development National Meeting, National Harbor, Maryland, February 16, 2011.

### **Bibliography**

### Peer-Reviewed Journals and Publications

- 1. Yawn B, Wellever A, Hartley D, Casey M, <u>Krein SL</u>, Moscovice I. Availability of rural Minnesota obstetric services: Is it a problem? <u>The Journal of Rural Health</u> 1995; 11(3):192-203.
- 2. <u>Krein SL</u>. The employment and use of nurse practitioners and physician assistants by rural hospitals. The Journal of Rural Health 1997; 13(1):45-58.
- 3. <u>Krein SL</u>, Christianson JC, Chen M. The composition of rural hospital medical staffs: The influence of hospital neighbors. <u>The Journal of Rural Health</u> 1997; 13(4):306-319.

- 4. Yawn B, <u>Krein SL</u>. Rural enrollment in MinnesotaCare. <u>Minnesota Medicine</u> 1997; 80(4):42-49.
- 5. Yawn B, <u>Krein SL</u>, Christianson J, Hartley D, Moscovice, I. Rural radiology: Who is producing images and who is reading them? <u>The Journal of Rural Health</u> 1997; 13(2): 136-144.
- 6. Moscovice I, Casey M, <u>Krein SL</u>. Rural managed care: Patterns and prospects. <u>Health</u> Affairs 1998; 17(1):172-179.
- 7. <u>Krein SL</u>, Casey M. Research on managed care organizations in rural communities. <u>The Journal of Rural Health</u> 1998; 14(3):180-199.
- 8. Christianson J, <u>Krein SL</u>. NorthMed HMO. <u>The Journal of Rural Health</u> 1998; 14(3): 233-243.
- 9. <u>Krein SL</u>. The adoption of provider-based rural health clinics by rural hospitals: A study of market and institutional forces. <u>Health Services Research</u> 1999; 34(1):33-60.
- 10. <u>Krein SL</u>, Hayward RA, Pogach L, BootsMiller BJ. Department of Veterans Affairs Quality Enhancement Research Initiative for Diabetes Mellitus. <u>Medical Care</u> 2000; 38(6): I38-I48.
- 11. <u>Krein SL</u>, Klamerus M. Michigan diabetes outreach networks: a public health approach to strengthening diabetes care. <u>Journal of Community Health</u> 2000; 24(6):495-511.
- 12. Kerr EA, <u>Krein SL</u>, Vijan S, Hofer TP, Hayward RA. Avoiding pitfalls in chronic disease quality measurement: A case for the next generation of technical quality measures. <u>The American Journal of Managed Care</u> 2001; 7(11):1033-1043.
- 13. <u>Krein SL</u>, Hofer TP, Kerr EA, Hayward RA. Whom should we profile? Examining diabetes care practice variation among primary care provider, provider teams and healthcare facilities. <u>Health Services Research</u> 2002; 37(5):1159-1180.
- 14. <u>Krein SL</u>, Vijan S, Pogach LM, Hogan MM, Kerr EA. Aspirin use and counseling about aspirin among patients with diabetes. Diabetes Care 2002; 24(6):965-970.
- 15. Kerr EA, Smith DM, Hogan MH, <u>Krein SL</u>, Pogach L, Hofer TP, Hayward RA. Comparing diabetes quality measures derived from different data sources. <u>Joint Commission Journal on Quality Improvement</u> 2002; 28(10):555-565.
- 16. Heisler M, Smith DM, Hayward RA, <u>Krein SL</u>, Kerr EA. How well do patients' own assessments of their diabetes self-management correlate with actual glycemic control and receipt of recommended diabetes services? Diabetes Care 2003; 26(3):738-743.

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### **Articles In Press**

- 1. Manojlovich M, Saint S, Forman J, Fletcher C, Keith R, <u>Krein SL</u>. Nurse/Physician Communication in the Intensive Care Unit: Development of Qualitative Tools for Research. <u>Journal of Patient Safety</u> (in press)
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- 1. Miller MM, Bosk EA, Iwashyna TJ, <u>Krein SL</u>. Challenges of Implementation: The Why, Who and How of Daily Interruption of Sedation
- 2. <u>Krein SL</u>, Kowalski CP, Hofer TP, Saint S. What U.S. hospitals are doing to prevent healthcare-associated infection: a national analysis from 2005 to 2009.
- 3. Jackson GL, Krein SL, Alverson DC, Darkins AW, Gunnar W, Harada ND, Helfrich CD, Houston TK, Klobucar TF, Nazi KM, Poropatich RK, Ralston JD, Bosworth HB. Defining Core Issues in Utilizing Information Technology to Improve Access: Evaluation and Research Agenda
- 4. Fakih MG, Greene MT, Kennedy EH, Meddings JA, <u>Krein, SL</u>, Olmsted RN, Saint S. Introducing a Population-Based Outcome Measure to Evaluate the Effect of Interventions to Reduce Catheter-Associated Urinary Tract Infection

### Letters to the editor

- 1. <u>Krein SL</u>, Vijan S, Choe HM, Hayward RA. Quality improvement strategies for type 2 diabetes. JAMA 2006; 296(22):2680.
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### **Dissertation**

Krein, S. L. <u>Rural hospitals and rural health clinics: The influence of market and institutional forces</u>. University of Minnesota, Minneapolis, MN, June 1997. Advisor: Jon C. Christianson, PhD.

#### Non Peer-Reviewed Publications

- 1. Casey M, <u>Krein SL</u>, Connor R, Wellever A, Yawn B. <u>Literature review and policy analysis of primary care workforce options in rural areas</u>, prepared under contract to the Agency For Health Care Policy and Research, Contract No. 282-93-0037 (DO #2), AHCPR Rural Center, University of Minnesota, Institute for Health Services Research, March 1995.
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- 3. Moscovice I, Wellever A, <u>Krein SL</u>. <u>Rural health networks: Forms & function</u>. Rural Health Research Center, Division of Health Services Research and Policy, School of Public Health, University of Minnesota, Minneapolis, MN, September 1997.

### Published Abstracts (partial listing)

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- 2. Kerr EA, Smith DM, Hogan MM, Hofer TP, Krein SL, Bermann M, Hayward RA. Building a better quality measure: are some patients with "poor quality" actually getting good care? *J Gen Intern Med*, April 2003; 18(Supplement 1):287.
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